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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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Ian Zenoni

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SCHWEGMAN, LUNDBERG & WOESSNER/OPEN TV

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EXAMINER

STOKELY-COLLINS, JASMINE N

ART UNIT

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PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/625,456	Applicant(s) ZENONI, IAN	
	Examiner JASMINE STOKELY-COLLINS	Art Unit 2623	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 22 February 2008.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☐ Claim(s) 1-30 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-30 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 22 February 2008 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Response to Arguments

1. Applicant's arguments, see page 12, filed on Feb 22, 2008, with respect to the rejection(s) of claim(s) 1 under 35 U.S.C. § 102(e) have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of newly found prior art references.

2. While Schrader teaches broadcasting information for creating an enhanced navigation tool (pg. 3 sect. 0036), other software in the system of Schrader performs some of the claimed features of applicant's claimed software. Schrader does not explicitly disclose that *all* code for implementing applicant's claimed features is broadcasted. US Patent 6,532,591 B1 to Arai teaches obtaining computer software through a broadcast along with television programming (col. 1 ll. 9-14). It would have been obvious to one of ordinary skill in the art to obtain the software taught in Schrader through broadcasting for the benefit of being able to acquire software remotely from a headend and also to update software more frequently.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 1-30 are rejected under 35 U.S.C. 103(a) as being unpatentable over Schrader et al (US 2002/0157099 A1) in view of Arai et al (US 6,532,591 B1).

Regarding claim 1, Schrader teaches a method of transferring data elements of a data structure (enhanced IP content) to a receiving unit in a broadcast video system (page 3, section 0033), the method comprising: enhancement computer program code (pg. 7 sect. 0065 "The CPU executes software designed to implement features of the client system 100 including features of the present invention", pg. 7 sect. 0066 "Computer readable instructions or data, including an application program 544, other program modules 546 and an electronic program guide (EPG) database") in a plurality of receiving units including said receiving unit (pg. 3, sect. 0033 refers to multiple client systems) wherein said code defines a data structure within a memory of said receiving units (pg. 9 sect. 0078), provides a menu (navigation guide, pg. 9 sect. 0078) having a plurality of enhancement selections (figure 9: on now, on later, scores, news), associates an identifier (Event ID) with at least one enhancement selection (figure 9: element 918 with plurality of buttons) of said plurality of enhancement selections, and enables said receiving unit to acquire data using said identifier (figure 3: Event ID, as explained in page 8 sections 0073-75). accessing (by selecting one of the buttons of element 918 of figure 9, e.g. "on now") a plurality of data elements (figure 9: element 916 is presented) such that

at least one data element (figure: element 916, i.e., NFL scores) corresponds to said at least one enhancement selection (figure 9: element 918 "ON NOW" is selected);

associating said identifier with said at least one data element (page 8 sections 0073-74);

broadcasting said at least one data element and said identifier to said plurality of receiving units including said receiving unit (pages 8-9 section 0076);

accessing a second data element corresponding to said at least one enhancement (figure 9 element 916 MLB scores is further presented after the first data element, i.e. NFL scores, is presented/accessed); and

associating said identifier with said second data element (page 8, sections 0073-74). broadcasting said second data element and said identifier to said plurality of receiving units including said receiving unit (pages 8-9 section 0073-0076).

Schrader does not teach broadcasting said enhancement computer program code

Arai teaches obtaining computer software through a broadcast along with television programming (col. 1 ll. 9-14). It would have been obvious to one of ordinary skill in the art to broadcast updated computer software, such as the enhancement computer program (navigation guide) disclosed in Schrader (e.g. fig. 8) along with the interleaved television programming and data services for the benefit of being able to update navigation guide software more frequently.

Regarding claim 2, Schrader further discloses accessing a third data element (news alert, page 8 section 0075) that corresponds to another enhancement selection (figure 9: element 916: News) of said plurality of enhancement selections; associating another identifier with said third data element (page 8 section 0075: Event ID); and broadcasting said third data element and said identifier to said plurality of receiving units including said receiving unit (block 620, as explained in pgs. 8-9 sect. 0076).

Regarding claim 3, Schrader updating information, using updated sports scores as an example, i.e., updated sports scores replace the original scores in memory (page 11, section 0096) satisfies limitation “wherein said second data element replaces said first data element in said data structure in said receiver”.

Regarding claim 4, Schrader further teaches computer program code (application that provides a tunable alert) associated with said at least one enhancement selection (sports) in said plurality of receiving units including said receiving unit that detects and acquires data (a sports game) associated with said identifier and that stores said data in a memory of said receiving unit (pg. 9 sect. 0080). Arai teaches obtaining computer program code through

broadcasting (col.1 ll. 9-14). The combination of Schrader in view of Arai results in obtaining said computer code through a broadcast.

Regarding claim 5, Schrader further discloses associating a link with said at least one data element wherein said link is activated if the display of said at least one data element is selected by a user (page 10 section 0083, buttons associated with enhancement data may access Web sites).

Regarding claim 6, Schrader further discloses associating executable program code with said at least one data element wherein said code is executed if the display of said at least one data element is selected by a user (pg. 3 sect. 0039 "The client system processes such data to create real-time visual indicators and cues and presents the visual indicators and cues together with IP data. Thus, for example, data corresponding to current status indicators of available sporting events and for invoking specific actions are provided to the client system").

Regarding claim 7, Schrader further discloses receiving a request from said receiving unit for said at least one enhancement selection of said plurality of enhancement selections (pg. 3 sect. 40).

Regarding claim 8, see analysis of claim 4.

Regarding claim 9, see analysis of claim 5.

Regarding claim 10, see analysis of claim 6.

Regarding claim 11, see analysis of claim 1.

Regarding claim 12, Schrader further discloses transmitting said first data element addressed to said receiving unit prior to broadcasting said least one data element and said identifier to said plurality of receiving units including said receiving unit (pg. 4 sect. 0043-0044 discuss assigning a higher transmission priority to real-time data and lower priorities to other data. In the case of a single transmission accommodating all priority levels real-time data would be received at a receiving unit prior to other related data).

Regarding claim 13, Schrader teaches a method of replicating a portion of a data structure stored in an upstream device of a broadcast system in a receiving unit of said broadcast system and displaying an element of said data structure at said receiving unit (page 8 section 0076), the method comprising: receiving a broadcast at said receiving unit (page 3 section 0033, figure 1); enhancement computer program code (pg. 7 sect. 0065 "The CPU executes software designed to implement features of the client system 100 including

features of the present invention", pg. 7 sect. 0066 "Computer readable instructions or data, including an application program 544, other program modules 546 and an electronic program guide (EPG) database") in a plurality of receiving units including said receiving unit (pg. 3, sect. 0033 refers to multiple client systems) wherein said code defines a data structure within a memory of said receiving units (pg. 9 sect. 0078), provides a menu (navigation guide, pg. 9 sect. 0078) having a plurality of enhancement selections (figure 9: on now, on later, scores, news), associates an identifier (Event ID) with at least one enhancement selection (figure 9: element 918 with plurality of buttons) of said plurality of enhancement selections, and enables said receiving unit to acquire data using said identifier (figure 3: Event ID, as explained in page 8 sections 0073-75);

receiving a user input selecting said at least one enhancement selection from said menu (fig. 9 "on now");

monitoring a broadcast for said identifier, acquiring a data element associated with said identifier, storing said data element in said data structure in a memory of said receiving unit and displaying said data element (pg. 10 sect. 0087 "Real-time indications concerning the score and time remaining are presented", pg. 8 sect. 0076 explains how the real-time data is acquired).

Schrader does not teach the broadcast includes the enhancement computer program code.

Arai teaches obtaining computer software through a broadcast along with television programming (col. 1 ll. 9-14). It would have been obvious to one of ordinary skill in the art to broadcast updated computer software, such as the enhancement computer program (navigation guide) disclosed in Schrader (e.g. fig. 8) along with the interleaved television programming and data services for the benefit of being able to update navigation guide software more frequently.

Regarding claim 14, Schrader further discloses monitoring said broadcast for said identifier (pg. 10 sect. 0087 "Real-time indications concerning the score and time remaining are presented", pg. 8 sect. 0076 explains how the real-time data is acquired); acquiring enhancement processing program code associated with said identifier (pg. 3 sect. 0036 teaches "user interface information 326 for creating an enhanced navigation tool" where HTML is one of the formats used); and displaying said data element in accordance with said enhancement processing program code (figs. 8 and 9).

Regarding claim 15, Schrader further discloses receiving a user input selecting the display of said data element; and activating a link associated with said data element if said link exists (pages 9-10 section 0083, figure 8).

Regarding claim 16, Schrader further discloses receiving a user input selecting the display of said data element; and executing computer program code associated with said data element if said code exists (page 8, section 0074-75).

Regarding claim 17, “receiving a user input selecting the display of said data element; and acquiring and processing data using a second identifier associated with said data element if said second identifier exists” reads on Schrader user selecting an alert, and the alert displaying an option to remotely record a show.

Regarding claim 18, see analysis of claim 13

Regarding claim 19, see analysis of claim 13.

Regarding claim 20, see analysis of claim 15.

Regarding claim 21, see analysis of claim 16.

Regarding claim 22, see analysis of claim 17.

Regarding claim 23, Schrader teaches an indicator that no additional data elements associated with said request remain to be broadcast (figure 10, element 1002 “10:00 left in the 2nd qtr.”).

Regarding claim 24, Schrader teaches a receiving unit (figure 5: element 120) that replicates a portion of a broadcast data structure comprising: a CPU (figure 5: element 532); a memory (figure 5, element 538); video hardware that produces an on-screen display of enhancement data elements (figure 5, element 560); and computer program code stored in said memory that defines a data structure (pg. 9 sect. 0078) and an enhancement menu (navigation guide, pg. 9 sect. 0078) having at least one enhancement selection associated with an identifier (figure 9:element 918 plurality of enhancement selections. “ON NOW” is presented) and that monitors a broadcast for said identifier and acquires and stores a data element (page 9 section 0076) associated with said identifier in said data structure, and displays said data element (i.e. NFL scores), if a user selects said at least one enhancement selection (figure 9, “ON NOW” is selected).

Regarding claim 25, Schrader further teaches code that issues a request to an upstream device for enhancement data associated with said at least one enhancement selection in response to a user input selecting said at least one enhancement selection (page 9 section 0079, where a user selects a navigation

element and the system tunes to that program and updates the presented navigation elements).

Regarding claim 26, Schrader teaches the system of claim 25 further comprising:

program code (page 3 section 0039) that receives a transmitted data element and that stores said transmitted data element in said data structure (pg. 9 sect 0078) in said memory (figure5: system memory 538).

Regarding claim 27, Schrader discloses a method of replicating a portion of an upstream device data structure in a receiving unit comprising:

"determining enhancement content to be provided" reads on Schrader Sports Content Aggregator waiting for the occurrence of a particular event to broadcast related information (page 8 section 0076);

creating an enhancement broadcast schedule (page 8 section 0076);

creating an enhancement menu having a plurality of enhancement selections (figures 8-16);

associating an identifier with at least one enhancement selection of said plurality of enhancement selections (page 8 section 0076);

broadcasting said enhancement menu to a plurality of receivers (page 8 section 0076);

accessing a plurality of data elements for said enhancement menu selections

(pages 8-9, section 0076);

associating said identifier with at least one data element of said plurality of data elements (pages 8-9, section 0076); and

broadcasting said at least one data element and said identifier to a plurality of receiving units including said receiving unit (page 9, section 0076).

Regarding claim 28, see analysis of claim 18.

Regarding claim 29, see analysis of claim 11.

Regarding claim 30, Schrader teaches creating a transmission schedule including said first data element (page 6 section 0056).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to JASMINE STOKELY-COLLINS whose telephone number is (571) 270-3459. The examiner can normally be reached on M-Th 9:30-5:00 EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Andrew Koenig can be reached on (571) 272-7296. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2623

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Jasmine Stokely-Collins/
Examiner, Art Unit 2623

/Andrew Y Koenig/
Supervisory Patent Examiner, Art Unit 2623